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BOOL AdiaRemove! BOOL bRemoveFromPlacements !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AD. CPP
                                                                                                                                                                                                                                                                                                                jefmain.commit();
return( bRc );
                                                                                                                                                                                                                                                                      char buf [1024] ;
                                                                                                                                                                                                                                                          711e (TRUE)
                                                             // Delete the user interests from the placement_interests table
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         anaparananidaringaninganinganinganingani
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          How save site page include-exclude list in the placement sites table
                                                                                                              ASSERT ( 0 ) /
brc . FALSE/
                                                                                                                                                                                                                                                                                                                                                                                                                  presk,
                                                                                                                                                                                         ASSERT ( 0 ) ,
brc - FALSE,
                                                                                                                                                                                                                                                                                                                                                                                                    if (lafmain.exec( buf ) |- 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                      targetPages.GetNextAssoci pos, dwPageiD, bJunk %
                                   ASSERT( 0 );
br.c . PALSE;
                                                                                                                                                                                                               (lafmain.execErrOX( buf ) 1 - 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    targetPages.GetStartPosition();
                                                                                                                                                                                                                                                                                                                                                                                        ASSERT( 0 );
                                                                                                                                                                                                                                                                                                                                                                                  DRC . FALSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19.Jan-1996 15:58
                                    DC 069520
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                                  HICHEL
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AD. CPP
                                                                                                                                                                                    void AdiiPeget ()
                                                                                                                                                                                                               isfmain.commit();
return( bRc );
    hoursOlDay - Oxilititi
nEmployees - DefaultMask;
                                                                                                                                                          daysofficek - 0x7f;
                                          browser . DefaultMask;
                                     domainType - DefaultMask;
                                                                               nazAmount - 0;
nzPONumber.Empty();
                                                                                                                              nagimpressions - 0;
salesvolume - DefaultMask
                         sp . DefaultMask;
                                                                                                                      Ype - Normal;
                                                                                                                                         mageseries - FALSE;
                                                       . DefaultMask;
                                                                                                            mainType - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ASSERT( 0 1.4
bpc - False;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ASSERT! 0 );
brc - FALSE;
                                                                                                                                                                                                                                                                                                                                                                              (bremoveFromPlacements)
                                                                                                                                                                                                                                                                                                                                                                                                            breaki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ASSERT! 0 11
brc - FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           break;
                                                                                                                                                                                                                                                                                                                                                           sprintff but, "delete pl
                                                                                                                                                                                                                                                                                            ASSEPT! 0 );
                                                                                                                                                                                                                                                                                                                         (iafmain.execErrOK( but
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Page 8(9)

19-Jan-13996 15-58		adDeecription.Empty(); filesame.Empty(); jumpTo.Empty();	<pre>targetPages.RemoveAll(); targetSites.RemoveAll(); elteCategories.RemoveAll(); interests.RemoveAll();</pre>	delete locations; nLocations = 0; locations = MULL;	delete [] eleCodee; eleCodee • Ol eleCodee • Nutle;	seriesNext - 0;	AD.CPP
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AD. C77
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cher buf | 1024 | 1 cher estime! 10 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              // If this is a barter ad. if (type .. Barter)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              strcpy( buf, "insert placements(jumpto,max_impressions,type.ps,browser,domainType,isp,frequ"
'image_series.advertiser,flage;hours_of_day,days_of_week,amployees,sales.dcscri"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           If (nadvertieerID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       streat ( buf. .) values ( ) )
                                             if (lafmain.exect but ) 1-
                                                                   sercat! buf. *) * );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               erreatine)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ASSERT( 0 );
return( FALSE );
                                                                                                                                                                                     erfrime! sitime, 9. "im/id/ly", gmrime( istartTime )
streat( but, "." );
addValue( but, sitime, FALSE );
                                                                                                      etritime; extime, 9, *\m/\d/\y*, gmtime; &cndTime
etrcet( buf, *,* );
eddvelue; buf, extime, FALSE );
                                                                                                                                                       (endTime) ;
                                                                                                                                                                                                                                     (etartTimo)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ecreat ( but. ".end_cime" );
                ASSERTE 0 ):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           maximpressions -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     but, maximpressions
                                                                                                                                                                                                                                                                                                                   maxAmount );
                                                                                                                                                                                                                                                                                                                                                     nEmployees );
                                                                                                                                                                                                                                                            ())pproved );
())eName, FALSE );
                                                                                                                                                                                                                                                                                                                                                                 ayeotheek );
                                                                                                                                                                                                                                                                                                                                                                                                             equency );
                                                                                                                                                                                                                                                                                                                                                                                                  ertiserID 11
                                                                                                                                                                                                                                                                                                                                           sevolume 17
                                                                                                                                                                                                                                                                                                                                                                                                                                            nType 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DOOL Ad: : Update()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             f (!adiD)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                To update an ad. we and re-book it.
[Removel FALSE ]]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ASSERT( 0 );
return( FALSE );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ia(main.commic();
                                                                                                                                                                                                                                                                                                                                                                                             char buf | 1024|;
char extime! 10 |;
                                                                                                                                                                                                                                                                                                                                                                                                                                           flage | Adii Targetedi
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// Get the ID of the newly added ad int addb = 0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return( AddPlacementTables( adID ) ):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cursor Ct
c.bind( SU_C_LONG, &adID, 4 );
stropy( buf, *select max(id) (rom placements* );
c.exec( buf );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         // Pe-determine if the ad is targeted double deerAdCost - CalculateCostPerAd(); if idPerAdCost -- DASE_AD_COST)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            stropy! buf, "update placements set " );
                                                                                                                                                                                                                                                                                                                                                                                                                    // Don't update max_impressaions if this is a barter ad. I
// credits the placement so we don't want to overwrite the
// barter credits
                                                                                                                                                                                                                                                                                                                                                                 streat | buf, 'max_impressions-" ):
                                                                           "description-" );
                                                                                                                                                                                                        mage_series. );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            delete the existing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19-Jan-1996 15:58
                                                                                                                                                                                                                                                                                                                                                                          addvalue( buf, maximpressions );
                                                                                                                                                                                                                                                                                                                                               jumpTo 11
f, gender 11
f, active 11
approved 11
fileName 11
                                                                                                daysOfweek 1:
nemployees 1:
salesVolume 1:
addescription 1:
                                                                                                                                                                                                    (1199 ) /
                                                                                                                                                                                                                    mageSeries 1:
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Page 4(9).

```
BOOL AdviAddPlacementTables( DMORD adID )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AD. C77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  char buf [1034] /
BOOL bac - TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return! FALSE ),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       return( AddPlacementTables( id ) );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            addvalue( buf, 'where id.' );
                                                                                                                                                                                                                                                                                                                                                                         streat but, *end_time**);
if (endTime)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if (lafmain.exect buf ) !- 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                etreat ( buf. *(null) * );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    errfrime! arTime, 9, "im/id/iy", gmrime! sendTime | );
addvalue! buf, arTime, FALSE );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sercati but. "(null)." );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              errfrime( estime, 9, "im/id/iy", gmrime( secaratime ) );
addvalue( buf, estime );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ASSERT( 0 );
return( FALSE );
                                                                                                                                                                                                                                                                                  if (ilocations[nLoop].state.lsEmpty())
streat( buf, *state,* );
                                                                                                                        addvalue( but, locationsintoop).state 1/
if (ilocationsintoop).sipCode.lsEmpty())
                                                                                                                                                    if ()locations intooplestate. IsEmpty())
                                                                                                                                                                            If (locations intoop) .country)
                                                                                                                                                                                                   errear! buf, "ad_id) values(" );
                                                                                                                                                                                                                                 if (locations inLoop) .areaCode)
etreat( buf, "areacode," );
                                                                                                                                                                                                                                                         if (!)ocations(nLoop).zipCode.lsEmpty())
streat( but, "zipcode," );
                                                                                                                                                                                                                                                                                                                     if (locations intoop).country)
                                                                                                                                                                                                                                                                                                                                                 etropy( but. "insert placement_locations(" );
                                             addvalue( buf, adiD, FALSE );
streat( buf, *) * );
                    if (iofmain.exect but ) is id
                                                                                                                                                                addvalue( but, locations[nLoop].country );
ASSEPT! O I
                                                                                   addvalue( buf, locationalntoop).areaCode li
                                                                                                             ddValuet but, locationsintoopl.zipCode );
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AD.CPP
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                                                                                                            DHOPD DWSICEID!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       vaprint(| but, "insert placemont_sitecats(ad_id,interest_id) values(td,td)".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          vsprint(| buf, *insert placement_sice(ad_id,siccode) vslues(id.'\s')*.
adip, sicCodes| nLoop |.asText() | |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     siteCategories.GetNextAssoct.pos, dwinterestiD, blunk is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               it (ialmain.exect but ) to 1)
                                                                                                                                                                                                                                                                                                          usprintf( buf, "insert placement_interests(ad_id,interest_id) values(id,id)",
adfo, dwinterest(D );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if (lafmain.exect buf 1 :- 1)
                                                                  targetSites.GetNextAssoci pos, deSitein, blunk li
                                                                                                                                                                                                                                                                                                                                                 Interests.GetNextAssoc( pos, dwinterestID, blunk );
                          waprint(| buf, "insert placement_sitesiad_id,site_id,include) values(td,td,td)",
    adib, dwSiteID, includeSites l.
                                                                                                                                                                                                                                                                               if (lafmain.exect buf ) !- 1)
if (futmain.exect but ) to 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    brc . FALSE;
break;
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brc . FALSE/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        bPC . FALSE
                                                                                                                                                                                                                                          bRC . FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ASSEPT(0);
                                                                                                                                                                                                                                                       ASSERT! 0 1/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               adib, dwinterestib );
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```
Finclude *etdataih*

Finclude *objecté.h*

Finclude */d/coolkit/db.h*

Finclude */d/coolkit/laf_util.h*

Finclude */d/coolkit/dbutil.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // eltepage.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SitePage · SitePage: 1100kupPage (Databases db.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SitePage + SitePage ()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SITEPAGE. CPF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   extern DOOL defaultAdeMode;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       void message (const char *s);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  vold SitePage::loadCategories()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         // from key format: sitekey/docname
if( from -- 0 )
return 0;
                                                                                                                                                                                                                                                                                                                                                                                 {{{ *from ** 0 }
    return 0;
const char *q ** strehr(from, '/');
{{ q ** 0 } || strien(from) > 75 }
    return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       c.bind(5QL_C_LONG, finterest[D, sixeof(interest[D)))
char eq[[1034] - *select interests_id from page_categories where page_id-*;
addvalue(eqi, jd, fALSE))
streat(eqi, union all select interests_id from site_categories where site_id-*);
addvalue(eqi, siteID, FALSE))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DWOND interestible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             from .. 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                categories.Add(interestID);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   categorized . FALSE,
                                                                                                                                                                                                                                                                                                                                                   CString keys
                                                                                                                                                                SitePage •p • new SitePage:
                                                                                                                                                                                                           if ( key.Gestlength() > 64 )
hey - key.Left(64); //
                                                                                                                                                                                                                                                                       // truncate a unique number from the end of the key conet char elastilah - etrrchr(q · 1, '/'); f( lastilah is isdigit(lastilah)) f( lastilah is isdigit(lastilah); trom); key - Citring(from, lastilash · from);
                                                                   e.bind(SQL_C_LONG, &p->id, 4);
e.bind(SQL_C_LONG, &p->site(), 4);
e.bind(SQL_C_LONG, &p->categorized, 4);
                   ddvaluetegl, key, PALSE);
                                        "select id. site, categorized from sitepages where keypame."!
etchnost () ) .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ·www.*, 4) -- 0 ]
                                                                                                                                                                                                                  // truncate to column width
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    const char *from, const char *requestHdr)
                                                                DC 069516
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SITEPAGE.CPP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // Didn't find the page. Add page if site is correct.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  char buf [512] - "insert sitepages (junk, keyname, site, categorized) values ('', 'i
c.bind/SQL_C_LONG. &id. 4);
c.bind/SQL_C_LONG. &id. from sitepages where keyname:*);
addvalue/but, keyname, FALSE;
c.esec(buf);
                                                                                                                                                                                                                                                                                                                                  Cursor c (db) :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ddvalue(buf, keyname);
ddvalue(buf, (int) eitelD);
ddvalue(buf, (int) categorized, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CString a - "eq): ";
a - buf;
ASSERT (FALSE);
TPACE(s);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CString siteKey(from. q . from),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   c.bind(SOL_C_LONG, &p-selte(D, elteof(p-selte(D));
c.bind(SOL_C_LONG, &epproved, sizeof(approved));
CSCring aql - select id.approved from eltee where keyname-'';
aql - eiceKey ' '\'';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         message (s) :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PACE(*error adding sitekey\n*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         p = 0;
iff idefaultAdaMode )
message( CString("unknown site; ") + (rom );
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c.letchWest(
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void Adirentesi()
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      743. GY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 const Catring gifshootDir . "c:\\ian\\ads\\";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ad. : - Ad()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              extern Database lafmain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sit idefined(_DERIVE)
int nAde() ( return ade.GetSize(); )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             include estdefx.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (Ad(const Ads ad)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      delete[| sicCodes/
                                                                                                                                                                                                                                                       atripSpaces(fileName);
atripSpaces(jumpTo);
iff maximpressions -- 0 )
                                                                                                                                                                                    eicCodes - new SicCode [nSiCCodes] | tor( int i - 0; i - nSiCCodes; i-
eicCodes[i] - ad.sicCodes[i];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /d/derive/sqlderive.h*
/d/newsderive/slg.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   d/toolkit/iat_util.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /toolkit/dbutil.h.
                                                                                                                                                                                                                                                                                                                                                        Day), daysofweek(ad.daysofweek),
                                                                                                                                                                                                                                                                                                                                                                                                               mpressions), nshown(ad.nshown).
                                                                                                                                                                                                                                                                                                                                                                                           | imageSeries (ad. imageSeries); endTime (ad.endTime);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     jumpto(ad.jumpto).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-Jan-1996 15:58
                                        DC 069517
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                                      ніснг
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Page 1(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AD. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         // if{ nShown \ 8 **
// // update $1
// calcs!();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           void Ailinhown()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ad::Ad()
                                                                                                                                                                                             CString AdiigetFileName()
                                                                           CString AdminiliNamel
                      BIE !defined(_ADSVP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      time t ti

DMORD totalSpan - endTime - etartTime;

i(i totalSpan - 0)

totalSpan - 1;

DMORD span - time(it) - startTime; i(i span - 0) span - 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "Shown . :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (DWORD) (((double) nShown / ((double) span / totalSpan) / maximpressions) * 1000);
                                                                                                              char buf12561;
waprintf(but, *vald.gif*, (const.char *) fileHame.beft( fileHame.GetLengthf)
return buf;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     daysOfWeek - 0x7f;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             type . Normal's
                                                       return gifeRootDir .
                                                                                                                                                            f(t limageSeries || seriesNext (* 1 )
return (lieName;
                                                                                                                                                                                                                                             hoursoflay - Oxfetitti
nEmployees - DefaultMaski
salesvolume - DefaultMaski
gendor - DefaultMaski
                                                                                                                                                                                                                                                                                                                                                              ncludePages - 0;
ncludeSites - 0;
                                                                                                                                                                                                                                                                                                                                                                                                    Ctive - 01
                                                                                                                                                                                                                                                                                                                 rowser - DefaultMaski
                                                                                                                                                                                                                                                                                                                                                                                          pproved - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                equency • 01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             age . Production | SpreadEvenly:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             *Impressions -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          reed . PALSE!
                                                                                                                                                                                                                                                                                                                                                                                                                                     10 - 4001 10
                                                                                                                                                                                                                                                                                                                                Default Mask
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    eries - FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                               ount . Os
                                                                                                                                                                                                                                                                                          Type - DefaultMask:
DefaultMask:
                                                             get FileName () t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19-Jan-1996 15:58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7190
```

3

```
pinclude "etdefx.h"

pinclude "objects.h"

pinclude "/d/coolkit/jaf_util.h"

pinclude "/d/coolkit/jaf_util.h"
                                                                                                    User. User.: _lookupUserDyID(Database& db. DNORD userID, BOOL *timedOutl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               USERS.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           User* User::_lookupUserByAddress(DWORD 1p)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // weers.cpp
                                                                                                                                                                                                                                                                                             void UseriilookupAncillaryInfo(Databaset db)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       class UserCursor , public Cursor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /* implementation for hash tables userID)
                                                     User 'u - new User;
UserCursor c(db, u);
c.minimalBind();
char sql [128];
                                                                                                                                                                                                                                                             return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DWORD userID = networkNodeTable.getUserID(Ip, FALSE);
                                                                                                                                                                              char eql(1281; "select email (rom users where id-11d", userID); usprint(iqq), "select email (rom users where id-11d", userID); c.bind(emailAddr); c.saec(eql);
                                                                                                                                                                                                                          Cursor c(db)
                                                                                                                                                                                                                                                                                                                                                                                                                                                       UserCursor(Databases db.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           User 'u . new Useri
                                                                                                                                                                                                                                                                                                                                                                                                      // just gets field that aren't derivable from request header void minimalBind()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         recurn 01
f( userID ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return _lookupUserRyID(userID);
                                                                                                                                                                                                                                                                                                                                                                    bind! SQL_C_LONG. &u->ftpTried, sizeof(BOOL) 1/bind! SQL_C_LONG. &u->hasCookie, sizeof(BOOL) 1/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Try to get domain info at least-
identifiable, derive data process
user as soon as it gets a chance-
                                                                                                                                                                                                                                                                                                                                                                                                                                                          User ._u) | Cursor(db)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        data process will create a record for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-Dec-1995 16:52
                                                                                                                                                                           DC 069514
                                                                                                                                              CONFIDENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Page 1(3)
                                                                                                                                                                            HICHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if( c.timedOut() ) (
-timedOut - TRUE;
delete u; u - 0;
                                                                                                                                                                                                                                                                     db.exec(bull)
                                                                                                                                                                                                                                                                                                                   char buf[256];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         - 0110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               c.setTimeOut[]];
c.setTimeOut[]];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return u!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       User .u . new User!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           iff c.timedout() )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            aprintfi eql, 'select
                                                                                                                                                                                                             ill trempuserObject() )
                                                                                                                                                                                                                                                                                                                                                                                                                                                       return u:
                                                                                                                                                    // add to DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         delete u:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 . 0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 *timedOut * TRUE;
delete u;
                                                                                                        ddninvalue(but. 191i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               delete ui
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (const
```

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USERS.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  user* User::_lookupUserByAddress(Database& db, DMORD lp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              void Userr:updatefTPTried(Databases db)
                                                                                                                                                                                                                                                                                                                                             void Useri:makePermanent (Databasek
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           else if( c.tetchNext() ) (
                                                addvalue (but, browser);
addvalue (but, bverl);
addvalue (but, bverl);
addvalue (but, os);
addvalue (but, os);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ASSEPT (FALSE) /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 else iff !c.fetchNext() ) {
                                                                                                                                                          *insert users (ip.browser,bverl.bver2.os.domain_type.is_proxy.is_networkdesc,ftp_tried.h*
**rect(buf. * values (*);
                                                                                                                                                                                                                                                    ASSEPTI name.lsEmptyi) is title.lsEmptyi) is emailAddr.lsEmptyii );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .bind! SUL_C_LONG. tu-vueerib. 4 );

    "update users set [tp_tried-ld where id-lid".
[tpTried 7 1 : 0. userID

inNetworkDencription);
{ttpTried);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (tp_tried,hae_cookie,id from users where ip-la*,
ar -) aglipStr(ip) );
                                                                                                                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29-Dec-1995 16:52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BOOL .clmedOut)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page 2(3)
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(t) db.doineerk(buf) -- 1) {
Cureor c(db);
c.bind(SQL_C_LONG, suserID, 4); ASSENT(userID 1. 0);

Page 3(3)

```
SERVER. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // server.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       const char cHTTPVeril - "HTTP/1.0";
const char cContentLenil - "Content-Length: ";
const char cErrHeaderil - "thisError";
const char cErrTeileril - "t/hi>";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ofatream erriogi
                                                                                                                                                                                                                                                                                                                                                                                                                                                 void sendirror(Connection .c.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   extern int nlistenerThreads;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    einclude */d/toolkit/crit.h*
extern CriticalSection fast;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   include "request.h"
linclude "mgmtrequest.h"
| | |
                                                                                                                                                                                      DOOL addressOR(const sockaddr_int from)
                        vold servicePequest (Connection ·c. const sockaddr_int from)
// ill.laddresaOxifrom) )
// return/
                                                                                                                                                                                                                                                                                                                                                                                                                         char buff1011
                                                                                                                                       iti trom.ein_addr.S_un.S_un_b.e_bi -- 206 44
from.ein_addr.S_un.S_un_b.e_bi -- 4 44
from.ein_addr.S_un.S_un_b.e_bi -- 219 )
                                                                                                                                                                                                                          c-verice (const char .) s. s.GetLength() );
                                                                                                                                                                                                                                                                                                                                                                                                   CString a . CHTTPVeri
                                                                  return FALSE,
                                                                                                                                                                                                                                                                                                                                                               .. cContentHTHL:
                                                                                                                                                                                                                                                                                      c len = strlen(msg) - strlen(cErrHeader) - strlen(cErrTrailer);
.- itoa(len but, 10);
.- *\r\n\r\n*;
                                                                                                                                                                                                                                                     .. cErrfrallers
                                                                                                                                                                                                                                                                         .. cgrrHeaders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     esage (conet char *) ( )
                                                                                                                                                                                                                                                                                                                                      . .. headerField:
                                                                                                         // IAF network
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           · Latrequest.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  e (conet char .);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     trequest.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /toolkit/mapetate.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Content-Type: cext/html\r\n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                      const char *meg, const char *headerField)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16-Jan-1996 14:03
                                                          DC 093215
                                      CONEIDENLIVE
HICHEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 1(4)
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```
SERVER. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            const BUFLEN - 32768;
char buf[BUFLEN];
buf[11] - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    int countDown . 0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Connection; | ReadError err
                                                                                                                                                                                                                                                                                                                                                                                                             Verb v a UNKNOWN;
const char *r * buf;
if attnicmp(buf, "get *, 4) ** 0 ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  const char *p;
if( | p = stratr(bul, *\r\n\r\n*)) | i = 0 | {
   const char *cl = stratr(bul, *Content-length:*);
                                                                                                                                                                                                                                                                                                                                                   else ill strnicmpibul, "head ", 5] -- 0 ] {
v - HEAD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    iff nPead .. 0 1 [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 int toPead - DUFLEN · n · l:
                                                                                                                                                                                                                                                                                                          ternen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ill countbown .. 0 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17 (161)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        count Down 1 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cl -- 151
                       sentitionete, .sol Not implemented.);
                                                                                                                                                          elso ill err -- Connection::TimcOut ) {
    message("empty request, timcout");

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              unt Down ..
                                                                                                                    message (*empty request, readerr*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           error
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     breaki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cl = stretr(buf, cContention);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         countDown -- strien(p . 4): // decrement by what countDown -- n . ((p . 4) - bu(); // decrement by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sacanticl, "Vid".
                                                                                                                                                                                                  messagei*empty request, bul!*1:-
                                                                           meneage ("empty request, err.OK?");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nRead:
                                                                                                                                                                                                                                  100 had request 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // Content-length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (countDown)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // total n bytes read
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16-Jan-1996 14:03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       // decrement by what we've already got
```

age 3(4)

orte c(fast),
nThread--,
if nThread-- 0) {
 if nThread-- 0) {
 if qThread-- 0) {
 qrPurge();
 read--, iAFRequest gric, v. r. (rom);
selif defined(_AD\$VR)
GetRequest gric, v. r. (rom); SERVER. CPP 1 three JINT listemerThread(LPVOID) int manthreads - 1: Liscenur eliscener = Or II defined(_IAF) sit defined(_ADSVN)
if(icpenTablee()) {
 AfameaegeBox(*Error opening tablee*);
 return FALSE; (OOL startServer!) while()) (
context | 1 from;
context | 1 from;
connection *c • listener-vesitForConnection((from); static DWORD ad . GetTickCount(); erand(ad..); gr.service(); MgmtRequest gric, v. r. (rom); mapStateInit(); InitCountryTimeZoneTable(); return FALSE: Connection c:

If c.connect("www.microsoft.com", 80) } {
 c.write("GET /aedt HTTP/1.0\r\n\r\n", 32); serviceRequest(c, (rom); delete c; while() | char buf[256]; int n - c.read(buf, 255); Crit c((ast);
Int x - ...Thread;
It(x - maxThreads)
maxThreads - x; 16-Jan-1996 14:03 DC 069513 CONEIDENTIVE HICHFA Page 3.(4) incluse. SERVER. CPP sit defined (_PORT) #if defined[_ADSVP]
errLog.open(*c:/lan/errlog.txt*, #endi(ligrener - new Ligrener(port): return TRUE! for int 1. 0; i antietenerthreads; i...) {
 Sleep[100]; // [dam] this is a test; sometimes it doesn't listen right, just a hunch
 AtabeginThread listenerThread. 0); return TPUE; ASSERT (FALSE) ! port - 80; If (n) {
 buf (n) • 0;
 TRACE(**)•*. buf); jositout | fostiapp. ad server started\n*; errlog.flush(); 16-Jan-1996, 14:03

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DC-069510
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ad.targetSitem.SetAt(eite10, TRUE);

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SQLDS.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          la(main.commit())
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // load sites to include/exclude for [ Int i = 0; i < ads.GetSize(); i...) [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if ( ad-vid -- cBadkeyAdiD && (ortargeting ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ad .ad . new Adirs.ad);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            c.bind( SDL_C_LONG, faiteID, elseof(alteID) );
c.bind( SOL_C_LONG, finclude, elseof(linclude) );
char eq[1512] - "select else_id,include from placement_elses where ad_id=";
eddvelue[eq], ad.id, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // Load site exclusions of placements. If exclude this ad. 
// and AdvinctudeSites is TPUE, remove site from map. If 
// exclude this ad. and AdvinctudeSites is FALSE, add this
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1117 2111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ads ad - *ade.GetAtiiii
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OOL includes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            iff defaultAd .. 0 is ad-stype i. Advitest is lad-sistargeted() ) defaultAd . adv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             delete badkeyErrorAdı
badkeyErrorAd - adı
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 message ("Increase AdiitargetSites hash size"):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 let c.fetchMext() ) (
it ad.targetSites.faEmpty() ) (
ad.targetSites.fitHabTable()7);
ad.includeSites - include;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ad.targetSites.SetAt (site1D. TRUE)
                                                                                                                                                                                                                                                                                                                                                                                        MORD altein,
                                                                                                                                                                                                                                                                                                                                                                                                    ds ad - *ads.GetAt(i); i++ ) {
                                                                                                                                                                                                                                                                                        yind(SQL_C_LONG, isite1D, siteOf(site1D));
r sql[St2] - "select site_id from placement_banned where ad_id-";
yealue(sql, ad.id, FALSE);
                                                                                                                                         iff ad.includeSites ) {
                                                                                                                                                                                                                                                                         ciaqli
it! ad.targetSites.RemoveRey(siteID);

// since map is empty, will go to all sites,

// which is wrong. Descrivate.

ad.startTime - ad.endTime - 0;

message! CString(*error, no sites allowed for *) - ad.fileHame );
                                                                                                                                                                                    adjincludeSitee . FALSE;
                                                                                                                                                                                                                                                        C.fetchNext() ) {
                                                                                                                                                                                                        ad.cargetSites.leEmpty() | {
                                                                                                                                                                                                   // exclude
```

```
SQLDB.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // load site/page categories
                                                                                                                                                                                                                                                                                                                                                                                                                 // load sice
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    c.bind( SOL_C_LONG, &pagelD, elreot(pagelD) );
c.bind( SOL_C_LONG, &include, elreot(include) );
char eq[[SI2] = "select page_id,include (rom placement_pages where ad_id=";
addValue(eql, ad.id, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     while c.fetchNext() ) {
if ( ad.targetPages.laEmpty() ) {
    ad.targetPages.lnitHashTable()7);
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BOOL includes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11100111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               while( c.fetchNext() ) {
   if( ad.siteCategories.isEmpty) ) {
   ad.siteCategories.initHashTable(37);
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C.bind! SQL_C_LONG, tinterestID, sizeo((interestID) ); char sql[513] - "select interest_id from placement_sitecats where ad_id-"; addvalue.sql, ad.id, FAUSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DWOPD interestible
Cursor cr
CString aicr
c.bindlaich
                                                                                                                                                                                                                                                                                                                                                      rt i = 0; i = ads.CetSize(); i++ ) {
Ad& ad = -ads.CetAt(i);
if( ;ad.imargeted() )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              nt n - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       message (*increase AdiitargetPages hash size");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ad.targetPagen.SetAt(page10, TPUE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  continue.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      message (*Increase AdmisiteCategories hash size*);
                                                                                                                                                                                                                                   c.bind(SOL_C_LONG, an sizeof(n));
char sql[S12] - "select count(") from placement_sics where ad_id-";
                                                                                                                                                                                                                                                                                                                                              continue;
                                                                                                                                             continue;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ad.siteCategories.SotAt (interestID, TPUE);
                                                                                                             i( n > 100 )
                                                                                                                                                                                ill ic. (etchNext() )
                                                                                                                                                                                                                ddvalue(sql. ad.id. FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Or i a ads. Cersize(); i...) [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ad.includeragee - include:
                                                                                                                             continue;
                                                                                       message (">100 SICa targeted");
```

Page 5(8)

19-Jan-1996 10:13

19-Jan-1996 10:15

Page 6(8)

```
char eql[513] - *eelect elccode from placement_elce where ad_id-*; addvalue(eql, ad.id, FALSE);
tatmain.committli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ASSERT( IC. (etchNext() );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Dind(SOL_CLONG. in, sizeof(n));
ier eq1[S12] - *eelect count(*) from placement_locations where ad_id**;
idvalue(eq1, ad.id, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                           message(*>100 locations targeted*);
                                                                                                                                                                                                                                                                                                                                    (SQL_C_LONG, &country, sizeof(country));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              to dor count the f of SICe first, and allocate that number rather than 50 . new SICCodein);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | - ads.CotSize(); i.. ) [
                                                                                                                                                                      NATERY . COUNTRY!
                                                                                                                                                                                                                                      . fetchWest() ) (
                                                                                                                                                                                               new Regioninia
                                                                                                                                                                                                                                                                       C_LONG, aareaCode, sizeof(areaCode));
[2] . "salect country,state,sipcode,areacode from placement_locations where ode;
[1, ad.id, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19-Jan-1996 10:15
                                           DC 069511
                  CONEIDENTIAL HIGHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SQLDB.CFP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 [[] adm.GetSize() -- 0 it forTargeting ) {
   // db connection down, use some default adm
   makeDefaultAdmidds);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TPACE("no default ad");
message("no default ad");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return ads.GetSire() i. o is defaultAd i. 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19-Jan-1996 10:13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Page 1(1)
```

```
10LD1.C77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // This is temporary. Used for non-unique users.
// Eventually will be smarter about what to send to
// these users.
Ad defaultAd = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       extern CriticalSection (ast)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // this ad displayed if a bad sitekey const chadkeyAdiD = 49;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BOOL loadAds(AdArrays ads.
DWORD advertiserID.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      typedet Chrrayand .. Ad .. Adhrrayi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Database is[main;
void message(const char *);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         // eqldb.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                etatic int uctOfer
etatic void localToUCTitime_ta_ti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BOOL defaultAdsMode - FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        include */d/toolkit/is(_util.h*
iinclude */d/toolkit/dbutil.h*
iinclude */d/toolkit/dbpool.h*
iinclude */d/toolkit/crit.h*
                                                                                                                                                                                             // If ( lopenDBPool () )
// return FALSE;
                                                                                                                                                                                                                                                                              // Eff Hafmain.open() )
// return PALSE:
                                                                                                                                                                                                                                                                                                                                                            BOOL OPENSOLDB()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       include *etdafx.h*
                                                              void reloadAde()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ·badkeyErrorAd - 01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       t same a
                                                                                                                                                                                                                                                                                                                      ia(main.open();
openDBPool();
                                                                                                                              iff iloadada (ada, o, TRUE, TRUE, FALSE, FALSE) ) return FALSE;
                                                                                                       return TRUE!
message (-waiting to reload ads...");
AfxGetApp() - xm_pHainWnd - xinvalidate();
AfxGetApp() - xm_pHainWnd - xupdataWindow();
                                     DOOL OK . FALSE!
                                                                                                                                                                          return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                      BOOL activeOnly.

BOOL includeExpired,

BOOL newestFirst,

BWOPD elteID - 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                           DOOL forTargeting.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                d/toolkit/db.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                // it torTargeting, update AdirtargetSites to reflect
site exclusions
/ active-1 only
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-Jan-1996 10:15
                                                       DC 069508
                CONEIDENTIVE
HICHEN
                                                                                                                                                                                                                                                                                                                                                                                                                                  where all delivered
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Page 1(8)
```

```
SQLOB.CFP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // note: this isn't getting called yet void closeSQLDBil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           class AdCursor 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Adarray ads:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // ....
                                                                              // ... TODO!!! This function is not thread-sale.
void recalcs!!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              lafmain.close(),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       j ( { ok }
for(, inc. ! - 0; l < ads.GetSize(); i·· ) {
    Ads ad - *ads.GetAt(i);
    ad.calcSi(i);</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (Cursor ()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 message (*Ad reload foilure!*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    message("Ad reload completed OK");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sleep (50);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    delete ada.GetAt (1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         dg.RemoveAll():
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               public Cursor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                · loadAdsiads, 0, TPUE, TRUE, FALSE, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sad.browser, elzeof(ad.browser));
sad.domainType, elzeof(ad.domainType));
sad.iep, elzeof(ad.iep));
                                                                                                                                                                                                                        kad.approved, sizeof(ad.approved));
kad.nJumps, sizeof(ad.nJumps));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sad.(requency, sizeo((ad.frequency));
sad.imageSeries, sixeo((ad.imageSeries));
sad.maximpressions, sizeo((ad.maximpressions));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 and type, elreof (ad. type));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         £ad. id. 4);
                                                                                                                                                                                                                                                                                   sad.maxAmount, sizeof(ad.maxAmount));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          O; i a ade.GetSize(); i...) [
                                                                                                                                                                                                                                                                                                                                         ad.hoursOfDay, sizeof(ad.hoursOfDay));
ad.daysOfMeek, sizeof(ad.daysOfMeek));
ad.nEmployees, sizeof(ad.nEmployees));
ad.salesVolume, sizeof(ad.salesVolume));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .nShown, mizeof (ad.nShown) li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .on. sizeof (ad.os)
                                                                                                                                                                                                                                                                                                                                                                                                                                          endTime. sizeo((ad.nShown));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19-Jan-1996 10:15
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Page 31

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HIGHLY
```

it! where) {

```
static vold makeDefaultAds(AdArrayt ads)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SQLDS.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DOOL loadAds(AdArrays ads.
DWORD advertiserID.
DOOL forTargetIng.
                                                                                                                                                             **ealect Id_type.os,browser,domainType.isp.filename.jumpto.frequency.image_scries.\
as_impressions.f_stown,datediffis, '1/1/70', start_time).datediff(ss, '1/1/70', end_time).\
tiags.hours_of_day_days_of_week.employees.asles.active.description,man_amount.po_number.\
approved.n_Jumps_from_placements';
                                               message(*db connection failed, using default_ads.txt*); defaultAdsMode • TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    itetream defAde(*c:\\ian\\default_ade.txt*);
it( idefAde.ia_open() ) {
   ASSERT(FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Y11011
                                                                                                                                                                                                                                                                      perconfiguatue ("Active", active);
                                                                                                                                                                                                                                                                                                                        4de.SetSize(0. 64);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           char [n[128];
char jumpTo[128];
•(n • 0;
                                                                                                                                    BOOL where . FALSE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ad.etartime - time(inow) - 60 ad.endTime - now - 60 + 60 + 2 ad.tileName - fn/ad.tileName - jumpTo/
it lactiveOnly)
                                                                                                                                                                                                                                                                                                                                                                        c.GetLocalTm(alocal);
if( local.tm_hour > gmt.tm_hour )
gmt.tm_hour += 24;
uctOfe - {gmt.tm_hour - local.tm_hour} > 60 - 60;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  defAde >> fn >> jumpTo:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              () calc time some adjustment ();
(Time t - CTime::GetCurrentTime();
                                                                                                                                                                                                                                                                                                                                                                                                                                               t.GUCGALTA (49mt) /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           lefaultAd - tad;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ds. Add (sad) /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gmt, local,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BOOL newestPirst.
DWOPD approveSiteID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BOOL activeOnly,
BOOL includeExpired,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // active-1 only
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // order from newest
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // 0-all // 10 tortargeting. update AdvitargetSites to reflect
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             / include where enddate has past or where all delivered
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19-Jan-1996 10:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     specified site has approved
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SOLDB.CPP
                                                                                                                                                                                                                      :::::::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if( advertiserID ) {
    if( where ) {
        streat(sq), - and*);
    }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  iff approveSiteID ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          iff newestFirst ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              while( 1 ) {
// defaults in case null
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rs.execteq11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         streat( sql. * active* );
addvalue(sql, active, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     strcat(sq), * not exists (select * from approved where site_id-*);
addValue(sql, approveSite(D, FALSE);
strcat(sql, * and ad_id-id)*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             errat(sql. * advertiser**);
addvalue(sql. advertiser(D. FALSE);
                                                                                                                                                                                                                                                                                                                                                                                             // If for debug, don't load. You can make this test a registry
// setting if you like so that you can load debug records, or
// add a emd line setting.
iff irs.ad.istroduction()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                iff irs. (etchNext() )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rs.ad.(lags - 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        where - TRUE; streat(sql, "where");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              where . TRUE; erreal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   where a TPUE:
screat(sql, "where"):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  etrcat(sql. . and.);
                                                                                                                                                                                                                                                                                                                                              ift ra. ianullilal 1 f
localToUCT(rs.ad.startTime):
localToUCT(rs.ad.endTime);
                                                                                                                                                                        ill forTargeting )
                                                                                                                                                                                                        re. 18Null (12) ) (
                                                                                                                                                                                                                                                                                                    rs.ad.startfime - time(Enow):
rs.ad.endTime - rs.ad.startTime - 60 - 60 - 24 -
                                                                                                                                                                                          ad server needs take times for now.
                                                                                                                           re.ad.startime - time(thow) - 60 - 60 - 24 - 15; re.ad.endTime - now - 60 - 60 - 24 - 15;
                                                                             rs.ad.startTime - rs.ad.endTime - 0:
                                                                                                                                                                                                                                       localToUCT(re.ad.ecartTime);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               order by id desc");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19.Jen-1996 10:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page 4(8)
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CONEIDENTIAL HIGHLY

ROURST.CPP old Requestilservice! old RequestissendInternalError() const char op a strchr(request. . .); 1 lbne relif defined(_KAYAGE)

Tellf defined(_KAYAGE)

Tell defined(_KAYAGE)

Tell defined(_KAYAGE) eendErroric, *500 internal Server Error*); (Ilename - dstring(request, p - request); const char 'p . (lleName) ileName - request; nderror(c, *404 Not Found*); d7:10(*c:\\!a(\\html\\)a(main.htm*); return; ASSERT(FALSE);
//CString (- "jekid(";
//CString (- "k:\\ny documente\\ad (aderation\\"; | default | decumentellinternet address finderlisfmain.htm*); 03-Jan-1996 15:53

Page 3 (3)

```
return key.userin * key.fromHashi
// default identity hash . works for most primitive values
// return (fUHT) (void-) (DWORD)key) >> 4;
                                                                                                                                                                                                                                                                                                                                                                                              UINT Hashkey (Key key)
                                                                                                                                                                                                  public:
                                                                                                                                                                                                                             Class Hemory
                                                                                                                                                                                                                                                                                                      truct Value
// ratar fix
                                                                                Delvate:
                         CMapaKey, Keys, Value, Volues» sent;
| memory:
                                                                                                                                                                                                                                                                 DWORD adsent:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               vold setibluser -u)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             900L operator++(const keys k) const
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         roid satfromiconst char *from)
                                                                                                      void remember(Keys k, DWORD adiD);
DWORD lookup(Keys k);
                                                                                                                                                                                     Hemory () . sent (100)
                                                                 void purgelli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         userID - u-vuserID;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    recurn userID -- k.userID && fromHash -- k.fromHash;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  fromitach - hachef (from) :
                                                                                                                                                            eent.InicHaehTable (SZ) /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   userID . u-sip;
             DC 069507
                                              CONFIDENTIAL
                                                                  HIGHLY
```

```
k.seciD(u);
k.secFrom(fromDoc);
memory.remember(k, ad->id);
memory.remember(k, ad->id);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       renemberad.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // todos nonunique hashes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              // e -- from:
// return hashwf(s);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // char bufflol: "llx", u->get1011 );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DWOPD Memory: 100kup(Keys k)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           //DWOPD hash(const char *from. User *u)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                vold Memory::remember(Keys k. DNOPD adID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // CString . . buli
      k.setiD(u);
k.setfrom(fromDoc);
bxOPD d - memory.lookup(k);
1/ OUTCPIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               void Memory: (purge ()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      static int count;
if( --count - 1000 ) {
   count - 0;
   purge();
                                                                                                                                                                                                                                                                                              void rememberSend(Ad 'ad, User 'u, const char 'fromboc)
                                                                                    Cric effasti
                                                                                                                             DNOPD queryAdSentiuser 'u, const char 'fromDoci
                                                                                                                                                                                                                                                     // INCRIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Value v:
v.adSent - adID;
v.time - i-CetTickCount();
sent.SetAt(k, v);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      value value:
if( sent.Lookup(k, value) ) {
   return value.adSent;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CONST LIMIT - 1000 . 60 . 60 . 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        message("remember map > SZ");
                                                                                                                                                                                                                                                                 crit cffast);
                                                                                                                                                                                                                                                                                                                                                                                                                                                DMOPD now . ::GetTickCount();
POSITION p . sent.GetStartPosition();
return d;
                                                                                                                                                                                                                                                                                                                                                         rent.GetNextAnsor(p, k, v);
if( now - v.time r LIMIT )
sent.PemoveKey(k);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-Dec-1995 17:22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // too much?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Page 2(2)
```

sinclude 'etdsfx.h' include 'objects.h' sinclude 'cemembersd.h' finclude 'd/toolkit/hashwi.h' sinclude '/d/toolkit/crit.h'

ADCDGERAD.CPP
// rememberad.cpp

// this is a test
static inc cr;
Rdefine INCRIT (ASSERT(cr=0); cr=-;)
sdefine OUTCRIT (ASSERT(cr=-1); cr--;)

const 52 - 107313/

extern CriticalSection (aet)

SETUCE KOY

DWORD (romNash)

```
MATCH.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       // a truly random distribution is used for them rather then
// leftovers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Iff ..testCounter 1 4 -- 0 ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     etetic int teefCounter;
                                                                                                                                                                                                                                             // todo leter. if ade are sorted by el (lowest first).
// you can quit matching se econ as you find
// one. Could be a good optimization.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // Check remnants (irst. This way, we don't
// have to do ad matching (or any targeted add
// with high 81's.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       // this is temp; eventual all placements will have book rates
// you'll want to remove this to get better performance (no ad matching
// if remnant has worst Si).
                                                                                                                                                                                                            // do targeted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |duestSI - SIMAX|
|duestSI - defaultAd|
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return adlowestSl)
                                                                                                                                                                                                                                                                                                                                        // for ade where we don't care about 8 impressions.
// blae in favor of targeted
[[] lowest81 -- 1100 ]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 . (1 . 1) \ nAds();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  nds ad - *ads.GetAtill;
[[ ad.type -- Normal &6 lad.isTargeted() &6 ad.si < lowest8! &6 ad.spreadOX(page) |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 - start;
                                                                                                          Ads ad . .eds.GetAt(||);
if( ed.type ... Normal &s ad.lefargeted() &s
ed.el < lovestSl &s
                                                                                                                                                                                                                                                                                                                                                                                                                                                         for ade with no booking amount.
allow a targeted ad to run sometimee
(lowestSi -- 1100)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          lowestSI - ad.el;
adlowestSI - 4ad;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 - (1 - 1) \ nAds();
                                                                                                                                                                                                                                                                                                                                                                                                                                            0~68CSI **!
                                          nd.emposuresOK(db, user)
// tound a good one
                                                                                               d.spreadOK(page) &&
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ad. *ade.CetAt(I);
ad.type -- Test && ad.ei < lowestS! && ad.criterisOX(db, user, page) )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               lowestSI - ad.el;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // just try every 4 to save CPU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-Jan-1996 15:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Page 5(6)
```

```
MATCH. CPP
return adlowestSl;
                                                                                                                                                                                                                                                                                     // do either a barter ad or an lan dev ad
                                                                                                                                                                                                                                                                                                                           1 - (1 - 1) \ nAds();
                                                                                                                                                                                                                                                                               tatic int counter!
                                                                                                                                                                                                                                                                                                                                                          adlowestSI . sads
                                                                                                                                                                                                                                                                                                                      breakı
                                                                                                                                                                                                                                                             / do an lan dev ad
                                                                                                                                                do barter
                                                                                                                                                                                    if ( i -- start )
                                                                                                                                                                                                                  ERSI . SIMAX,
                                               10( | -- start )
                                                                                                                                                                              breakı
                                                                                                                                                                                                           break
                                                                     lowestSI - ad.si;
                                                                             18-Jan-1996 15:15
```

;

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Page 6 (6)

```
else If( erretricileName, ".gif*) i= 0 ) {
   hdr .- 'image/gif\r\nContent-Length' 'i
   else {
    hdr .- 'text/html\r\nContent-Length' 'i
   hdr .- 'text/html\r\nContent-Length' 'i

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CString hdr . "HTTP/1.0 200 OK\r\nContent-Type: ";
if( attatr(()|eHame, ".class") |- 0 | {
  hdr .- "application/java\r\nContent-Length: ";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        soot lespider . FALSE:
                               cone buffize . 13800;
char buffnursize . 2001;
Crile (;
                    CrileException for
                                                                                                                                                                                                                                                                                                                              int gnt . 0:

if erretrirequest. *.Agent: Lycos*) !- 0 |

gnt . 1:

gnt . 1:
                                                                                                                                                                                                                                                                                                                                                                                                  Impression(),
                                                                                                                                                                                                                                                                              If otratr(request, *-Agent, MebCrawl*) t- 0 ]
                                                                                                                                                                                                                               111 gnt )
                                                                                                                                                                                                                                                                                                it! strett(request, *infoSeek Robot*) i* 0 )
gnt * 21
                                                                                                                                                                                                                                                                 gne . Jd
                                                                                                                                                  gut 44 ******* Robot * 44 gnt 44 *******\n*!
                                                                                                                                                                                                 lespider - TRUE,
DC 069505
   HIGHLY
```

```
[f( v == OET || v == POST ) {
    if( if.Open(file*same. CFile*:mode*Pead | CFile*:shareDenyMrite. ife) } {
    if( ie.m.cause == CFile*Exception::accessDenied )
        sendError(c. *404 Not Pound (Access Denied)*);
        sendError(c. *404 Not Found (Sharing Violation)*);
        sendError(c. *404 Not Found (Sharing Violation)*);
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ### defined (CONSOLE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ASSERT! n 1- 0 && n 1- BUFSIZE );
                                                                                                   char temp[100];
itoa(n. temp, 10);
hdr -- temp;
hdr -- *\r\n\r\n*;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    char .p . buf;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   n . petFileSize(fileName);
iff ii . 0 ) (
eendErrortc. "404 Not Found");
                           c-swrite( (const char *) hdr. hdr.GetLength() );
if( v ** CET || v ** POST )
c-swrite(huf, n);
return TRUE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // HEAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            inSpider . FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 . f. read(but. BUFSIZE);
                                                                                                                                                                                                                                                                                                                                                                                                    char *p * stretribut, *</pody*);
if( p ) {
  (ort int i * 0; i * 20; i * ) {
    strcpy(p, gratuitoue);
    p ** gratuitoue.GetLength!);
}</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   penderror(c. *404 Not Found*):
return FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       int ! • strlen(insertStrl:
    nemmove(p • 1, p • 1, strlen(p•1));
    memcpy(p, insertStr, 1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return FALSE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         p = strchr(p. insertChar);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cout << *gratuitous empty. (7)\n*;
                                                                                                                                                                                                                                                        mendi!
                                                                                                                                                                                                                                                                         sit defined(_CONSOLE)
cout << */body7\n*;
                                                                                                                                                                                                                                                                                                                                                   etrepy(p, **/BODY>*/HTML>*);
n * (p - buf) * 14;
                                                                                                                                                  // content length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  03-Jan-1996 15:53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page 2(3)
```

pool RequestiisendFile(const cher *fileName, const char *insertStr)

int spider . 0:

useriP . from.sin_addr.s_addr:

const char "_request; const ecckaddr_ins from) : cl_c), request(_request), v(_v)

eit defined[_IAF]

courtog << --and - << fileName << ' ' << inet_ncos((in_addrá) userIF) << '\n';

sinclude "etdafx.h"

sinclude "/d/toolkit/sock.h"

sinclude "request.h"

sinclude "/d/toolkit/laf_util.h"

sinclude efectesm.h.

void impression():

٠,

Request I : Request (extern CString gratuitous:

Connection ._c.

// request.cpp REQUEST. CPP

03-320-1996 15:53

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```
CONFIDENTIAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Page 1(6)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MATCH. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BOOL AdiispreadOK(SitePage *sitepage)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           // Note:
                                                                                                                                                                                                                                                                                        // Does user and site match this ad's criteria?
BOOL Advimatches(User *user, SitePage *sitepage)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            addvalue(sql. id);
addvalue(sql. user-xget1D(), FALSE);
strcat(sql. ",1)*);
db.exec(sql);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                char eq! [1024] .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return TPUE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // impressions OX? | ( nShown >= maximpressions != 0 ) | return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         iff iscarced )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if ( isspreadevenly!) 44 si >- 1120 i
return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // is start time met?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    iff itargetSitem.isEmpty() ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "update exposures sot exposures-exposures-1 where ad_id-";
addvalue(sql, id, FALSE);
streat(sql, and user_id-");
addvalue(sql, user-yet(D(), FALSE);
db.exec(sql);
                                                                                                                                                                                                                                                                                                                                                          return TPUE,
                                                                                                                                                                                                                                         iff mirepage .. 0 )
                            // Operating system
pwOPD o = 1 << ((int) user-vox);</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Insert exposures values(":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      time t now:

if ( time(thow) < startTime )

return FALSE;
started - TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  iff includeSites
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BOOL found . targetSites.Lookup(sitepage-veitelD,
                                                                                               return FALSE;
                                                                                                                                              BOOL vi
BOOL found • targetPages.Lookup(sitepAge+>id, v);
if( includePages ) {
   if( ifcound )
   if( ifcound )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       any matching required for nontargeted ads can be placed here, since this function is called for both targeting and untargeted
                                                                                                                                                                                                                                                                                                                                                                                                                                                      // If we have pages to target too, ok if site // docso't match (check if page does next) if ifound it targetPages.lsEmpty() }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return FALSE!
                                                                                                                                                                                                                            return FALSE!
                                                                                                                                                                                                                                                                                                                                                                                                         return FALSE!
                                                                                                   // excluding this page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    790 3(6)
```

pool AdiiexposuresOK(Databases db, User suser)

return TRUE;

tound) 1000

TRACE[-useridio?\n^];
return FALSE;

iff tound) {

iff n >= frequency }

return FALSE;

ound - c.tetchNext () ;

char eq1 | 1024 -

ericoMest . n . 11

DC 069502

nddvelue(eql. id. FALSE); streat(eql. and user_id.); iddvalue(eql. user-nget(D(), FALSE);

ureor cidb):
.bind(SOL_C_LONG, in, sixeof(n));
.bind(SOL_C_LONG, in, sixeof(n));
.h.r ani(3)21 - "select_exposures from exposures where ad_id*";

seriesMeat - 0,

return myzip » regzip is myzip « regzipEndi

Cstring my2ip - ripcode.Left(5), // strip rip+4 for now Cstring region - region.ripcode.Left(5); cstring regioned - region.ripsnd.Left(5);

if(region.xipCode.leEmpty())
return TRUE;

if(reglipend.isEmpty())
return reglip -- mylip;

extern Ad ·defaultAd; extern Ad ·badKeyErrorAd;

extern int nextAdi

INC AND UI

// Returns TRUE if this location is in region.

pool Location: Iniconst Regions region)

if(region.country !- 0 && country !- region.country)
return PALSE;
if(region.areaCode !- 0 && areaCode !- region.areaCode)
return FALSE;

iff tregion.erate.leEmpty() is atricmp(state, region.erate) (- 0)
return FALSE;

finclude "stdefx.h"
finclude "objecte.h"
finclude "/d/toolkit/db.h"
finclude "/d/toolkit/dbutil.h"

// match.cpp

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// Ad Matching!

```
Iff (0 & 00) -- 0 )
return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // DomainType 0:
int user:SP - 0:
int dt - (int) user-sdomainType:
if( dt - (int) dt:SPOther ) {
   user:SP - dt - (int) dt:SPOther + 1;
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    iff (o & browser) -- 0 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 iff locations 1- 0 ) [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // Jocation
                                                                                                                                                                                                                                                                                                               // sales

If allesvolume | - 0.7fffffff |

If | o | 1 < user-salesvolumer

If | (o | salesvolume) -- 0 |

return PALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // hour of day / day of week
iff hoursofday i- oxffffff || daysofweek i- 0x7f | {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  o . 1 < userISP;
ift (o & isp) -- 0 )
return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        recurn FALSE!
                  it ( nomployees to ontititit ) (
it ( nomployees to on the one of 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  o = 1 44 dt;

If (o 4 domainType) -- 0 )

return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BOOL ok = FALSE;

forfine i = 0; i = niocetione; i + ) {
   if user + location.in( locatione!!) } } {
   ok = TRUE;
   break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1/ 150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if( (hoursofbay & (1 << t->tm_hour)) -= 0 )
  return PALSE;
if( (daysofweek & (1 << t->tm_wday)) -= 0 )
  return PALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         If [ lebbsoluteTime() ) (
// EST time relative
time_t now)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return FALSE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      c = user->location.userRelativeTime();
if( t == 0 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           . localtime (tnow) /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return. FALSE/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         // if ISP, don't know location (yet)
DC 069503
         CONFIDENTIAL
                                                                                HIGHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10 . . . or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11 ok 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        break:
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MTCH.CPP .

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Page 3(6)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HATCH.CPP
                                                                                                                                                                                                                                                                                                                                                                                   // todo: If reload ade, need to handle the (act that one may still be in use and can't just delete. // crit sect released during sending of (i)c.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       inline BCOL AdileriteriaOK(Databasek db. User *user. SiteRage *page)
                                                                                                                                                                                                                                                                                                                                                       Ad. AdiigetAdiDatabasas db.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // Site and page categories
// Do last, because this is expensive (disk hit)
(f( 'settecategories.la@mpty() ) {
                                                                                                                                                                                 if( page .. 0 ) {
if( badkeyErrorAd )
return badkeyErrorAd)
ASSEPT(FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       return apreadOX(page) &&
(!istargeted!) || |
(matches(user, page) && exposuresOX(db, user))
                                                                                                                                                                                                                                                                        ill user-suniqueness & utikely )
return defaultAdi
                                                                                                                                                                                                                                                                                                                       CONST SIMAX . 100000001
                                const int start . nextAdr
                                                                  int lowestSi;
                                                                                                                   it! increment )
nextAd + (nextAd + 1) % nAds():
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ohile( ) ) {

I(( ) >= nSiCCode* ) {

// no match
// Do a test ad, if appropriate. Always do these first so that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sitepage-vloadCategories();
for( int | 0 | 4 sitepage-vcategories.GetSite(); | 1++ )
if( siteCategories.Lookup(sitepage-vcategories.GetAt(i), v) )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           iff mitepage .. 0 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SICCodes pattern . sicCodesiil:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCode sci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ile( user-vsicCodes.getNext(sc) ) (
i(( pattern.matches(sc) ) (
ox - TRUE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        return FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return TPUE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sicCodes. reset ();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          breaks
                                                                                                                                                                                                                                                                                                                                                                User *user, SitePage *page, BOOL increment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-Jan-1996 15:15
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.00	50	590	J	u

CONEIDENTIVE HICHEA

// cemp: just return first ad (ISS)
//return new Ad(ads.ElementAt(0));
/return new Ad(*defaultAd);
// return 0; eendl(errtog.flushil;

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Page 9.(9)

16-Jan-1996 18:10

COOKIE-CPP 11-Det-1995 10:21	7.g. 1
// cookie.cpp	
Finclude 'etdefx.h'	
//	
const Cookles Cookles coperator (const char 's)	
TOPPUTATION TOPPUTATION	
(*etatic*/ Cookie Cookie::alloc(DMORD userID)	
ASSERT(weerID to 0):	
k.velue - useriO; return k;	
) // Cet value for a particular cookie name from the little header // hdr - points to the Cookie; field in the header	
2	
hdr 7; // skip "Cookie:"	
const char 'p - strchribdr, '\r');	
CString on a name:	
tone q o nm. Gettength()	

DC 069501

CONFIDENTIAL HIGHLY

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ODJECTO. CPP
                                                                                                                                                                                                                               :::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tent 44 *4b>location-
iff location-country
tent 44 *USA*,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      oloo itt gondor .. . (. || gender .. . 9' )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                toat ee "Mole"; | gender -- 'n' )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tant as "absjob function: a/bs";
tont as "absgonder: a/bs";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Domain *d • Domain::lookupDomain(lp);
itt d •• 0 ] {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1.434>. >> 3803
                toat 44 *country 0* 44 location.country;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              teat as "Fomble";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    toat 44 *Abadomoin name: 4/ba* 44 (conot char *) d-adomain 44 *\r\n*;

toat 44 *Ababuo. name: 4/ba* 44 (conot char *) d-aaddronoio) 44 *\r\n*;

tent 44 *Abaddronoi 4/ba* 44 (conot char *) d-aaddronoio) 44 *\r\n*;

tent 44 *Abaddronoi 4/ba* 44 (conot char *) d-aaddronoio) 44 *\r\n*;

tent 44 *Abaddronoi 11.10Empty(1) }

[for | Int | -1 | 1 | 4 | NADDR; | 10 | 1 |

If | Id-aaddronoi | 1.10Empty(1) }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cont as estato company information available. 4/19-1
                                                                                                                                                                                                                                                                                                                                                                                               i.u. ** 1.1.
                                                                                                                           tont << {loop than 25 (unknown) *;
tont << *\r\n*;
tont << "abroavenue; </b>
if | obloovolume |
                                                                                                                                                                                                                                                                                                                                                         tont ee . ebsinduotries:
                                                                                                                                                                                                            tont as .\r\nabano. empl. i
                                                                               toat 44 "lead than $1MM (unknown)"; dolote d:
                                                                                                                                                                                                Ill a Employees
                                                                                                                                                                                                                               tent i - 0; i - MAXSICS; i - )
DWORD lovels
                                                                                                                                                                                     tost er nEmployeess
                                                                                                                                                                                                                                                                                                     olcCodeo.ropet();
                                                                                                                  test 44 polesvolumes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   :
                                                                                                                                                                                                                1,049/1
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                                                                                                                                  DC 093438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        //domainName
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pago 5(9)
                                                                                                        CONFIDENTIAL
                                                                                                                                      HICHEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OBJECTS. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ASSERT (FALSE);
                                                                                                                                                                                                                                                                                                                                                                       char buf [256] .
                                                                                                                                                                                                                                                                                                                                                                                                      NetworkNumber ni
                                                                                                                                                                                                                                                                                                                                                 Cursor c(db) 1
                                                                                                                                       iff c.timedOut() )
                                                                                                                                                   c.exec(buf)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CString deach
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     db.commit():
                                                                                                         C. TetchNext ();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         towe as bull
                                                                                                                                                                                                                                                                                                                                                                                                                                                            returni
```

CString category,

```
"select interest_level.category.name (rom interests,user_interests)
where interest_id-interest_id and user_id-lid\
order by interest_level DESC*, userID);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           void User:i_getNetworkInfo(Databasek db, BOOL *timedOut)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       // got dt from header info
// got dt from header info
// got dt from header info
// if isp/osp, location and sales, etc.
// if have done a tracert, location d
// for ispa/osps,
if domainType i- dtHetcom l // did tra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          n - juntNetworkNumber(Ip):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // Note: do the following for
                                                                                                                                                                                                                                                                                                                                                                                                        c.bind(SQL_C_LONG, elocation.country, elizof(location.country));
                                                                                                                                                                                                                                                                                                                                                                                                                                              streatt buf. n.sqlStrf) l;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          iff domainType + dtAOL ) {
                                                                                                                         if uniqueness ** uUnknown ss (int) domainType >*
uniqueness * uUnlikely;
                                                                                                                                                                                                                                                                                                                      c.bind1SQL_C_LONG, alocation.areaCode.
iff timedOut != 0 )
                                                                                                                                                                                                                                                                                                                                                                 c.bind(location.zipCode);
                                                                                                                                                                                                                                                                                                                                                                                  c.bindilocation.state);
                                                              if domainType >- dtAOL ) (
palesvolume - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    c.bind(SQL_C_LONG, alevel.
c.bind(category);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         while ( c:fetchNext() ) {
    char buf(32);
    char buf(buf, *\14]d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    c.bind(SQL_C_LONG, &domainType, sizeof(domainType));
c.bind(SQL_C_LONG, &salesVolume, sizeof(aslesVolume)); salesVolume *
c.bind(SQL_C_LONG, &nEmployees, sizeof(nEmployees)); nEmployees * 0;
c.bind(SQL_C_LONG, &nEmployees, sizeof(nEmployees)); nEmployees * 0;
sicCodes.bind(c);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         stropy(but, "select country, state, ziprode, areacode from networks where netnumber-");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "select domain_type.sales.num_employees.sic.country,state,zipcode.areacode
                                                                                                                                                                                                                                                                                                        C. DECTIMEOUT (1)
sicCodes.makeNull();
if( domainType !- dti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            text ca category cc.
           dt Net com
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ·. levell;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        . ** desc ** *\r\n*!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u>-</u>
              ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // did tracert for netcom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   location does
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         domain types to at least get country
              domainType !-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16.Jan-1996 10:10
                                                                                                                                                                                                                                                                                                                                                             mizeof (location.areaCode))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               don't apply
                     disrother ) (
                                                                                                                                                                    (int) dtAOL )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    from networks.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Paga 6 (9)
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OBJECTS. CPP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     const char cCookieil - "Cookiei";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "old User: tilltver(const char *verStr)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               user: User: lookupUser(Databases db. DWOPD ip. const char *requestHdr. BOOL loadDemographics. *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       extern defaultAdaMode;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       int v1 = 0, v2 = 0;
secant(verstr.
s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   User. User::_lookupUserByAddress(DWORD ip)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .. 'Js : 11_lookupUserByID(DWORD userID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Teturn us
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DAPP weerid . networkNodeTable.getUeeriD(ip. FALSE);
                                                                                                                                                                                                                                                                                              // ......// lookup
                                                                                                                                                                                                                                                                                                                                                                                                                                                              const char ock o stretrirequestHdr. cCookiel;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cookie cookies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (( user1D ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                [[ 0 -- 01300n ]]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         // get cookie for lookup
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BOOL_timedout - realTime 7 &_timedout : 0;
                                                                                                                                                                      Iff icookle.isNull() ) {
                                                                                                                                                                                                                                    10 . n. Jeen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              elcCodes.checkHull();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return _lookupUserByID(userID);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         userID - natworkHodeTable.getUserID(justNetworkNumber(Ip), TPUE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // Try to get domain into at least. Note: if user is uniquely // identifiable, delive data process will create a record for the // user as soon as it gets a chance.
                                                                                                                                                                                                                                                                                                                                                                                                cookie.getFromHeader(ck, *|AF*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // don't know location, except country location.state.Empty(); location;sipCode.Empty(); location;areaCode • 0;
                                                                                          Learn . seenander .
puserID - cookie.value:
puserID - cookie.value:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16-Jan-1996 18:10
                                                                                                                           DC 099499
                                                                                   CONFIDENTIAL
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                                                                                                                                                                          HICHEL
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ORJECTS.CPP
                                                                                                                                                                                                                                                                                                      Ad+ Ad:: findSentTo(User *user, const char *fromDoc)
                                                   aif defined (errlog)
                                                                                                                                                                                                                                                                                                                                             // SicePage
                                                                                                                                                                                                                                                                                                                                                            //-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               else iff : timedOut ) {
u = _lookupUserByAddress(db. lp. tmout);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 iff !cookie.ismull() )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      u->headerDerive(requestHdr);
                                                                                                                                                                                             for int i = 0; i = nAds(); i+ ) {
   Ads ad = *ads.GetAt(i);
   if ( ad.id == adtum )
                                                                                                                                                                                                                                                                     DWOPD adNum + queryAdSent (user, fromDoc);
                                                                                                                                                                                                                                                                                                                                                                                                                                                  if( loadDemographics is i_timedOut i
u->_getNetworkinfo(db, realTime ? su->timedOut i 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            111 ... 0.1
                                                                                                                                                                                                                                                                                                                                                                                                                   return ut
                                                             iff user-suniqueness so utikely ! [
                                                                                                    if badkeyErrorAd && adNum -- badkeyErrorAd->id )
return badkeyErrorAd;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // make a default user object
u - new User/
//u-vuniqueness - uNo/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           u-stimedOut - _timedOut;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  u-shaeCookie - TRUE!
erriog << findSentTo failed uniqueness-likely\n*;
erriog << user: "< user-suseriD << '\n';
erriog << " from doc: " << fromDoc << '\n';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // lookup by cookie
u . lookupUserByIDidb, cookie.value, tmout);
ifi u ) |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         u-sip . ip:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            u-suniqueness - uYest
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // Note: generally, this shouldn't happen-cookie.value * 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          u-vuniquences - uYes:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  u - new Users
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   defaultAdsMode ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Couldn't find user record, we will need to assign a new cookie. Do not load by IP, because we don't want this user sharing a record with others without cookies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               superio - cookie.value:
```

16.Jan-1996 18:10

Page 1(9)

```
// objects.cpp
                                                                                                                                                                                                                                                         sinclude stdafa. 4.
                                                                                                                                                                                                                                                                           16-Jan-1996 18:10
   DC 069496
CONEDENTIVE
HICHEA
                                                                                                                                                                                                                                                               *Peserved for ISP Names*
```

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פון ביותום ביותום
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      conet cher ·dowStrl) · [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #If idefined[_JUSTSTRINGS]
                                                                                                                                                                                                                                                                                                                                                                                                                    extern Ad .defaultAd:
                                                                                                                                                                                                                                                                                                                                                                                                                                            sit idetined(_DERIVE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        extern Ad .badxeyErrorAd;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 int nextAd . 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               extern ofstream errlogi
                                                                                                                                                                                                                                               void UseriideriveDomainTypeFromDrowser()
                                                                                                                                                                                                                                                                                                                                                        BOOL User::cookleCapable() const
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      *11pm-12am*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Tueeday".
"Wedneeday".
DWOPD UseringetID() const
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .Saturday.
                                                                                                                                                                                                                                                                                    return browner .. brictscape 44 (bver2 >- 1 || bver2 > 1);
                                                                                                                                                                                                                                                                                                                                  // todo: add new version of Internet Explorer
                                                                                                                          domainType - dtProdigy;
                                                                                                                                                                                                   domainType - dtAOL:
                                                                                                                                                               domeintype - dtEworld:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       //toolkit/lef_util.h.
                                                                                         inType - diDelphi:
                                                     DC 069497
                                 CONEIDENTIVE
HICHEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page 3.(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OBJECTS.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             User i iUser ()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   void Useriidescribe(Databases db. atratreams text)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                domainType - drUnknown;
for( int i - 0; i < MAXSICS; i - )
elcCodes[i] - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return userID:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              uniqueness - uUnknown;
ip = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ignation*Description *
ftpTried * FALSE;
hasCookie * FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      browser . brunknown;
bver1 . bver2 . 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    timedOut . FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               In_addr ipAddr - (in_addri) ip;
text << "<br/>
text << "<br/>
text ></br
                                                                                                                                                                                                                                   db.commit ();
                                                                                                                                                                                                                                                                                                                                                     addvalue[eq], a.l.emailname, FALS
attral[eq], a.u.d.domain=1;
addvalue[eq], a.l.domain, FALSE);
                                                                                                                                                                                                                                                                                 it ( g. GetLength ) } {
gender * g. GetAt (0);
name * f * ' ' ' ' ' '
                                                                                                                                                                                                                                                                                                                                                                                           har eqlilozel . select
                                                                                                                                                                                                                                                                                                                                                                                               gender (name) lname) from listings where emailname...
                                                                                          er title er "\r\n";
                                                                                                                             domainTypeHames[domainType] << "\r\n"; [proxy ? "Yes"; "Ho"] << "\r\n";
                                                     location.areaCode < *\r\n*;
location.areaCode < *\r\n*;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16-Jan-1996 18:10
                                                                                                                                                                       « (int) bver2 « "\r\n";
```

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```
GETREQUEST . CPP
                                                                                                                                                                                              void GetRequestribetivity/const char *activityStr)
                                                                                                                                                                                                                                                                                                                                                  void GetRequestiisendFrame(const char *from)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CString hdf ... ... OKYTANCONTENT. Type: text/html\r\nPragme: no-cache\r\nContent.Length: "; char buf[13000]; char buf[13000];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ad *ad * AdiifindSentTolueer, from);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        delete usera
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SitePage 'page - SitePage::lookupPage((rom, request);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              test 44 "jumping from document: "44 from 44 "\r\n";

test 44 "jumping from document: "44 from 44 "\r\n";

test 44 "jumping from document: "44 ad-yjumping 44 "4/2>\r\n\r\n";

44 (const char +) ad-yjumping 44 "4/2>\r\n\r\n";

44 (const char +) ad-yjumping 44 "4/2>\r\n\r\n";

44 (const char +) ad-yjumping 44 "4/2>\r\n\r\n";

45 (const char +) ad-yjumping 44 "4/2>\r\n\r\n";
                                                                                                                                                                                                                                                                                                                                                                                                                      delete pager
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   etrotream text (buf, 12000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              catting in a ad-villeHame;
text 44 "*centers*img erc=\"/"
44 (const char *) in
44 "\"";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // fill content
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        c-parite ( (const char *)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  hdr .. .\r\n\r\n.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1coa(n. cemp. 10);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                text 44 "4/pre>4/body>4/html>"!
                                                                             // eand the file first
ActivityType type:
CString siteMey:
BOOL ok - TRUE:
                                                                                                                                                                                                                                                 e .. *\*>\ne/e>4/centerv4/html>*; // Width4468 Height+60
c-purited (const char *) s. s.Cettength() );
                                                                                                                                                                                                                                                                                                                   CString s . HTTP/1.0 200 OR\r\nContent-Type: test/html\r\n";
e . 'r\nanthisaBODY>aCENTER>aa htef=\"http://206.4.219.5/jump/";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              logJump(ad. user. page):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     int n . text.pcount();
                                                                                                                                           BOOL bad . FALSE,
                                                                                                                                                                  // go shead and send for best response time sendFile("c:\\isn\\html\\dot.gif");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCUTAL
                                                                                                                                                                                                                                                                                          .. .\->\neimg arc-\-http://206.4.219.5/ad/-i
                                                            witcht .activityStr )
type . Interest:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           // (1x1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     content length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hdr, hdr.GetLength() ) r
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100110011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            es (const char e) ad-stullNamet) 44 *\r\n\r\n\r\n"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10-Jan-1996 17:12
                                                             DC 069494
                                      CONFIDENTIAL
                                                                       НІСНГ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Page 5(8)
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```
GETREQUEST. CPP
                                                                                                                                                                                                                                                                                                          :
                                                                                                                                                                                                                                           void GetPequestrisendAd(const char *from)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           iff ok ) {
    const char .p. activityStr . 1;
    iff .p.; // )
    ok . FALSE;
                                                                                                                       static DMOPD lastFTP;
startLatency - GetTickCount();
                                                                                                                                                                   Database .db . getfromPoolTimeout();
                                                                                                                                                                                                               itt from 44 acrnicmpifrom.
                                                                                                                                                                                                                                                                                                                                                           iff tok ) {
                                                                                           User *user!
umer - Umeriilookupumeriidb, umerii, request, thue, thuell:
iff ub -- 0 l {
page - 0;
                                                               ipe. pv
                                                                             SitePage . page!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Database 'db - getfromPooli);
User 'user - User: lookupUser('db, userip, request);
                                                                                                                                                                                                                                                                                                            DWOPD advertiserID - 0/
// todo: fix if not assigned a user ID. (use IP)?
iff user-vaserID to 0 1 // if not from tAN, skip logging
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       db.,commit();
                                                                                                                                                                                                                                                                                                                                                                                                           delete user;
releaseToPool(db);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               type - InfoRequest;
break!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        i( ok ) |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    type - Sale;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ok . FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C.bind180L_C_LONG. LadvertiserID, sizeof(advertiserIDI);
char sqll10341 - *select id from advertisers where sitekey-*;
addvalue(sql), sitekey, FALSE);
c.exec(sql);
ok - c.fetchHext();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ok - FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     const char *q - strchr(p. '/');
i(1 q -- 0 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            iractivity**;
if( advertiserID != 0 }
logActivity(user, advertiserID, type);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    nitekey . Cstringlp. 9 .
                                                                                                                                                                                                                             -uuu, *. 41 --
```

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```
// Iff v -- GET) {
// TRACE("get ta\n", from);
// }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTTREOURST.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ad - AdiigetAd (*db. user, page, v .. GET);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          etacle int randCutoff - 0; //RAND_MAX /-4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            de . MaitForSingleObject (ftphutes, 0);
(If doFTP is de 1. MAIT_FAILED is de 1. MAIT_TIMFOUT )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         page - SirePage:.lookupPage(*db, from, request);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // Remember that we're doing FTP (or user. Only do once.
user-sitpTried - TRUE;
user-supdateFTPTried(*db);
                                                                                                                                                                                                                                                                                                                                                                             VERIFY( ReleaseMutex (ftpMutex) );
                                                                                                                                                                                                                                                                                                                                                                                                                                           erriog << errying FTP\n";
erriog << e user e << user-sgetiD() << t\n';
erriog << e browser e << browserNames((int) user-sbrowser) << t\n';
erriog << e browser e << \n';
erriog << e ur) e << e << '\n';
                                                                                                                                                                                                                                                                                         db->commit();
relesseToPool(db);
                                                                                                                                                                                                                                                                                                                                                                                                        endfrroric, ")02 Hoved Temporarily", ela
                                                                                                                                                                                                                                                                                                                             erriog. [lush();
                                                                                                                                                                                                                                                                                                                                                     logAdsend(ad, ueer, page);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       setfip . startLatency;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            String (n . ad-vgetFileName();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    string a . *Location: *!
.. *ftp://206.4.219.6/*!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                printf(but, *\la*, ueer->getiD());
                                                                                                                                                                                                                                           /(.co.leave();
                                                                                                                                                                                                               f.co.enter():
                                                                                                                                                                                                                             nd(+db. ad. user);
                                                                                                                                                                                        PLACIC INC COUNTER!
                                                                                                                rememberSendiad, user, (rom);
logAdSendiad, user, page);
lf( user-rtimedOut ) (
                                                                                                                                                                   ed-scaleSI();
pp endsend . GetTickCount();
po endsend . GetTickCount();
selendLatency;
                                                                        t imeOut soor
                                                                                            MOITIMeOute...
                                                                                                                                                                                                                                  // this function calls releaseToPool()
                                                                                                                                                                        // update
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-Jan-1996 17:12
                                                                                                                                                                            18
                                                                                                                                                                            every 4 or so deliveries
                                                        DC 069495
                          CONEDENTIAL HICHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Page 7(8)
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```
// delete ad:
delete page:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CETREQUEST. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       void GetPequestiitskeJump(const_char ._(rom)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              jumpingWhereifrom):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Database 4db . .getFromPool();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                If I from it atraicmp(_from, "www.", 4) ** 0 }
_[rom :* 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              User 'user . User::lookupUseridb, userip, request, FALSE);
delete page:
delete ad;
delete user;
db.commit();
releasetopool((db);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CString from:
                                                                                                                                                                                                                                                                                                                           Ad *ad * Ad: findSentToluser, from):
SitePage *page * SitePage::lookupPage(db, from, request):
                                                                                                                                                                                                                                                                           CScring s . Location: 1
                                                                                                                            user->makePermanent (db) r
                                                                                                                                         // Must do this so activity will be logged properly.
// See GetPequestriactivity().
                                                                                          logJumplad, user. pagel:
                                                                                                                                                                                                              c-sclose(),
                                                                                                                                                                                             /[.cs.enter();
                                                                                                                                                                                                                           endErroric, *101 Moved Permanently*,
                                                                                                                                                                                                                                                : ././0.1
                                                                                                                                                                                                                                                             .. ad->jumpTo:// . *?(rom-la(*;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       const char *p * strchr(_from.
f(| p -- 0 ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   adSendTimeWaw(endSend - mtartLatency);
                                                                                                                                                                                                                                                                                                                                                                                                                                          from __from:
char buf[5:12]:
usprint[buf, 'no ismap \d. \**. user -- 0 ? 999 ; (int) user->browser, (const char **
message(buf);
                                                                                                                                                                                                                                                                                                                                                                                            from . CString(_from. p . _from);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-Jen-1996 17:12
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,/ getraquest.cpp
;/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CETALOUEST. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .include
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "include cetdata.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sinclude */d/toolkit/db.h*
sinclude */d/toolkit/dbutil.h*
sinclude */d/toolkit/dbpool.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // This used to prevent multiple concurrent FTP // requests right now because our FTPD implementation // only does one at a time.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DWORD startlatency, endlatency!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 const char *progName - *AdSvr*;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             extern offeream arriogi
extern int activity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      extern CriticalSection fast;
//extern Database latmain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          void recalcSI();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     vold message (const char .);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               extern const char .browserNames();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 include
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              vold GetRequestiiservice()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         extern MANDLE (tpMutex)
                                                                                                                                                                                                                                                                                                                                                 ele If (llekame.Loft(4) .. */ad/* )
endAd((conet char )) (llekame
ele If (tllekame.Loft(9) .. */ad/
endFrame((conet char )) (lleka
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             const char .p . strchr(request, ' ');
                                                                                                                                                                         elec If ( IlleName, Left (6) -- "/viowad/" ) (
CString esflieName;
esplieName, rormat( "c:/ian/ade/Ne", (LPCTSTR)(lleName+0);
eendfile( esflieName );
                                                                                                                elee if fileHame.Left(11) .. */state.htm?* ) {
    eandErrorft. *ioi Hot Found, Pesulte forecast
    //state((const char *) (ileName * 11);
                                                                       eandinto((const cher -) (ileName - 10);
                                                                                                                                                                                                                                                                                                                                                                                                                                                   tileName . Cstring(request, p . request);
ite iff fileHame.Left(4) .. */si_*) {
// send info stuff
si_((const char *) fileName * 4);
                                                                                                                                                                                                                                                                                                                                                                                                                        [ | ] enume . request /
                                                                                                                                                                                                                                                                              e (f fileHame.Left[10] -- "/activity" )
activity(const char -) fileHame - 10)
e (f fileHame.Left[7] -- "/whoam!" )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ·/d/toolkit/crit.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ·/d/toolkit/ist_util.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              */d/toolkit/sock.h*
                                                                                                                                                                                                                                                                                                                                        iff fileName. Left 161 ...
                                                                                                                                                                                                                                                                    c(fast);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18-Jan-1996 17:12
                                                                                                                                                     moved to another
                                                                                                   DC 069492
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                                                                    CONFIDENTIAL
                                                                                                           HICHEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               111 .. counter . 200 1 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                static int counters
                                                                                                                                                                                                                                                                           CString hdr - cHeader;
                                                                                                                                                                                                                              const BUFSIZE - 32000;
char buf[BUFSIZE];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  const char *p = [ileName:
if( strnicmp[p, "/java/",
if( strstr(p, "..*) ...
                                                                                                                                                                                      Cookle sendCookies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            recalcSi():
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 36 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ( ·/· ·· q· 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sendError(c. "404 Not Found");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 counter . 175:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         senderror(c. "404 Not Found");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        eendfile(p):
                                                                                                                                                            (( u->cookieCapable() && :u->cimedOut )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    / send default
                                                                     // it a user record already exists, it's probably because // this IP address is shared with other users (proxy, IP pool. // this IP address is shared with other record; we don't want // etc.) So, we want to create another record; we don't want // to assign the same cookie to different people!
// to assign the same cookie to different people!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return: .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   pendFile(f);
                                           generate a cookie for the user
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       >
```

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GETREQUEST. CPP
                 // send() should commit the DR (f it does any DR operations because the caller commits aboad of time so that the transaction won't // remain open while the file is sent.
                                                                                                                const char cheader!! .
-!!TTP/1.0 200 OKYPANContent-Type: image/gif/r/inContent-Length: *:
vold Getpequestrisend(Databaset db. Ad *id. User *ii)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               élse (f. fileHame.Left(9) ** */sysstate* ) (
sysState();
                                                                                                                                                                                                                                                                                                                                                                                                          // Normally we adjust SI for an ad an it is delivered.
// However, occasionally should do all ads in case one hasn't
// been delivered but time has passed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                itt //strchr(p. ./.) .. 0 it strchr(p. strstr(p. ...) .. 0 l
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sendFile {*c:\\ian\\html\\default.htm*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CString f . "c:\\lan\\html\\";
                                                                                                                                                                                                                                                                                                       recale St for all ads
                                                                                                                                                                                                                                                                                                                                                                                    // adjust constant as traffic increases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18-Jan-1996 17:12
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CETREQUEST. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // hdr .. *\r\nProgma: -no-cache*;
                                                                                                                                                                                                                                                                                                                                                                                                                     // diagnootic
void CathequaatijayaStateii
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      itosin. temp. 10); // content of the temp. 10); // content of temp. 10); // content 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          char tompilool,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                c-peritoi (conot cher *) hdr.
ifi v -= GET |
c-peritoibul, n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          andLatancy . GetTickCount();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hdr .. .\r\n\r\n.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // last-modified time
                                                                                                                                                                                                                                                                                                                                                         Normal*,
                                                                                                    CString hdf "200 OK/r\nContent-Type: text/html\r\nContent-pength: "1 char buf[13000]:
-buf 0 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      n - getPiloSize( bd->ful)Name() );
// noat line io a teot for MCSA Moobic HEAD
//n - 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   relessetoPool (4db) ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // release DB here so that we don't keep a db connection occupied // while pending the ad db.commit() /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    n . (.Rood(buf. BUFS12E))
ASSERT( n !- 0 && n !- BUFS12E );
                                                                        otrotreem text (but, 12000, for iout);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                waprintfitamp.
                         // fill content
                                                                                                                                                                                                                                                                              ·lan bev. );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ASSERT (FALSE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               u-shooCookio - TRUE;
u-smokoPermonent(db);
oendCookie.volue - u-sget1D();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           *\r\nSet-Cookio: IAF-Vlx; path-/; ampires-Med. 09-Nov-99 23:59:00 GMT*, pendCookie.value);
-lackody becolor-uttttttt\r\n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // content length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           hdr.GetLength() ):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CUSHTTPTIme();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10.Jan-1996 17:17
                                                                                                                                                      DC 069493
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GETREQUEST. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // diagnostic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           text <
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       // Get a db connection to lock the ads array so that
// It isn't reloaded or anything while we are processing.
bacabase 'db - getFromPool();
                                                                                                                                                                                                            // diagnostic void GetRequestirjumpingWhere(const char •(rom)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (ort int i . 0; i < ads.GetSize(); i.. ) {
   Ad .ad . ads.GetAt(i);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                c-swrite( (const char *) hdr. hdr.GetLength() );
c-swrite(buf, n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        text << "</body></html>":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          releaseToPool (db) i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       char temp[100];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             int n . text.pcount () :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Database 4db . .getfromPool():
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hdr .. '\r\n\r\n'.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    itoain, temp. 1011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CString hdr ...
"HTTP/1.0 200 OK\r\nContent-Type: text/html\r\nContent-Length: ";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              User .user . Useri lookupuseridb.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       // [1]] content text << "-chtml><body bgcolor=#fffffff*chi><fhG SRC-\"ianlogop.gif\" ALIGN-\"BOTTOH\">Uper In-
text << "-spre>";
text << "-spre>";
uper->describe(db, text);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 user..lookupAncillaryIntoidbl;
                                                                                                                                                                                                                                                                                                                                                                                                        c-swrite( [const char *) hdr. hdr.GetLength() );
c-swrite(buf, n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         int n . text.pcount();
char temp[100];
jtoa(n, temp, 10); //
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 stratream text(but, )2000, iosiiout);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          char buf [32000];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       text < . . /pre> //body > /html > .;
                                                                                                                                                                                                                                                                                                                          delete user:
relesseropool(idb);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                hdr .. temp:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              text << ad->[]leName << *\*,* < ad->[]leName << *\ftd>";
text << *ctd>" << typeStralad-xtype] << "</td>";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  text is "etroitive href-1"http://od.lantargeto.com/viewad/";
                                                                  User *user * UseriilookupUser(userIP, request, FALSE);
                                                                                                                    // (ix for multi-db conns
                                                                                                                                                             ASSEPT (FALSE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // content length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         content length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     pressions << ~</td>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       userif. request);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18-Jan-1996 17:12
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Pago 4(0)

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```
// next line should be in trutil.h extern CountryTimeZones:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ar Location: userPelativeTime( time_t timePelative )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              nook daylightSavings:
ida;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       truct lebaylightSavings
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if( country -- 256 ) {
   if( igetStatefimeZoneInfoistate, utc_offset, daylight_bias) }
   return FALSE;
}
                                                    itt ids.daylightEsvings && daylight_biss !- TZ_DIAS_UNDEFINED |
ttTime .- daylight_biss . 60 . 60;
else_____
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          isDaylightSavings ()
                                                                                                                                                                    // If timeRelative on 0, this assumes that they want the time // relative to the current time terime . timeRelative; if (ittime)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         int utc_offeet;
return gmtime (åttTime) /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return FALSE:
                                                                                                                                                                                                                                                                           Dime_t ttTime!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TIME ZONE_INFORMATION IN
DWORD r - Certimezoneinformation(&!);
daylightSavings - r -- TIME_ZONE_ID_DAYLIGHT;
                                                                                                                                                                                                                                                                                                                           ute offeet . LOWORD(dwBias);
daylight_bias . HIMORD(dwBias);
                                strime .. usc_offset . 60 . 60;
                                                                                                                                           time (AttTime) ;
                                                                                                                                                                                                                                                                                                                                                                                bwind dwilse:

![{ |mapCountryTimeZones.Lookup(country, dwilse) }

return FALSS;
```

Page 1(1)

// location.cpp LOCATION. CPP

einclude "stdafx.h"
sinclude "objects.h"
sinclude "/d/toolkit/mapstate.h"
sinclude "/d/toolkit/trutil.h"

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CONEIDENTIVE HICHEA

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DC 069488

CONFIDENTIAL HIGHLY

```
einclude "etdsfx.N"
einclude "objecte.h"
einclude "/d/toolkit/isf_util.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEADER.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // header.cpp
//
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     pool Useriichech(CStrings userAgent, const char *pat, Browser b, OS of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  vold message (const char .);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           const char cBrowser() . *User-Agenti*)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                vold User: ilittos(const CStrings userAgent)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   static void match/OSs oa, const char *userAgent, const char *pat, OS ol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           If i broweer to brunknown !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          it! etretr(userAgent, pat) 1. 0 }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       int | - etrienipati:
if( userAgent.Le(t(i) -- pat ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                      If | userAgent.Find(*XII*) >- 0 ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return PALSE:
                                                                                                                                                                                                                                                                                         else ift userAgent.pind("Windows") >= 0 ) (
ift userAgent.pind("32bit") >= 0 ||
itsuserAgent.pind("95") >= 0
                                                                                                                                                        else if ( userAgent.Find(*Win95*) >= 0 ) {
os - osWin95;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return FALSE,
                                                                                                                lse if ( userAgent.Find("Win16") >= 0 ) {
    os = osWin16;
                                                                                   ilee If ( weerAgent.Find( Macintosh ) >- 0 ) (
    else it[ userAgent.Pind("WinNT") ... 0 ] {
os . osWinNT;
                                                                                                                                                                                                                                                                                                                                                   match (os. userAgent. -SunOS*. osUnixSun);
match (os. userAgent. -HP-UX*. osUnixHP);
match (os. userAgent. -Linux*. osUnixLinux);
match (os. userAgent. -OSF*. osUnixASF1);
match (os. userAgent. -AIX*. osUnixAIX);
match (os. userAgent. -IRIX*. osUnixAIX);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOLUTA TRUE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  f(p) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            onet cher op . userAgent:
                                                                                                                                                                                                                                    os - osvin32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Oweer - b2
                                           matchios, userAgent, *68K*, osMac66);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         liftverip . 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                     os - oswinier
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HEADER. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   {\cal H} derive information about the user from the request header {\cal H}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   void Useri:headerDerive(const char *requestHeader)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           const char 'us . stretr(requestHeader, chrowser);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                111 us .. 0 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         neesage(a):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      uniqueness - uUnlikely:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                whilet 'ua .. '.' )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // it no user agent tield, something weird we // don't know much about, don't hasume unique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       const char *p . strchrius. \r'l;
iff p l {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CString userAgent(us. p. us):
if( userAgent.Left(8) ... *Mozills/*) {
   browner - brNetsCape;
   browner - brNetsCape;
   liftVer((const char +) userAgent - n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                else ([[ userAgent.Left([12] .. *HCSA Hossic/* ) {
    browser . brHCSA;
    liftver((const char *) userAgent . 12);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   :
::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              clse if ( strncmptuserAgent, -| WENG/-, 6) -- 0 ) (
                                                                                                                                                                                                                                                                                                                                                                                                              else itt strocmptuserAgent, "nolbrouser/", 101 ** 0 1 {
brouser * brAOL;
                                                                                                                                                                                                                                                                                                         else iff userAgent Left (16) .. . Enhanced_Mosaic/" ) {
   browser - brenhancedMosaic;
                                                                                                                                                                                                                     else iff userAgent.Left(8) .. "HotJava/" ) {
                                 matchios, userAgent, "Mindows", osMin);
matchios, userAgent, "XIII", paUnixUnknown);
matchios, userAgent, "X Mindow", osUnixUnknown);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         uniqueness • uNO:
domainType • dtAOL:
ji[tver((const char •) userAgent • 6);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   browser . brAOL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            littoS(userAgent);
                                                                                                                                                                                                                                                                                                                                                                      uniqueness • uNo;
domainType • dtAOL;
liftVer((const char •) userAgent • 11);
                                                                                                                                                                                                                                                                                              browser . brMlcrosofts
                                                                                                                                                                                           liftVeri(const char +) userAgent + 8):
                                                                                                                                                                                                          browser - brHotJava:
                                                                                                                                                                                                                                                    matchios, userAgent, *Windows 95*, oswin95);
                                                                                                                                                                                                                                                                                                                                                         OS . OSMAC:
                                                                                                                                                                                                                                                                               liftveri(const char *) userAgent * 28);
                                                                                                                                  littver((const char .) userAgent . 16);
                                                                                                      iff userAgent.Find("Win32") >- 0 ]
                                                                                           OS . OSWIN321
```

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void latencyWas(int n); extern int barter, lander, testAds 02-Jan-1996 14:24

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CONFIDENTIAL HIGHLY

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DX 20

PREQUEST.N

11-Jan-1996 13:25

getrequest.h

CONFIDENTIAL HIGHLY

// rememberad.h
//
void rememberSend(Ad *ad. User *u, const char *fromDoc);
void rememberSend(Ad *ad. User *u, const char *fromDoc);
pwond queryAdSent(User *u, const char *fromDoc);

26-8sp-1995 12:39

7.9